## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application: 45-53 / 45-49

edi Tai

Claims 1-44 (canceled).

50-53 NR

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(New) An antigen comprising a peptide present in the ENV protein of MvP5180/91, wherein the peptide is from 10 amino acids in length to 33 amino acids in
length and comprises an amino acid sequence encoded by SEQ ID NO:35, and wherein
the antigen binds to an antibody that can bind to HIV-O.

(New) The antigen of claim 45, wherein the amino acid sequence encoded by SEQ ID NO:35 is alanine-alanine-glycine-serine-threonine-methionine.

(New) An antigen comprising a peptide present in the ENV protein of MvP-5180/91, wherein the peptide is from 15 amino acids in length to 33 amino acids in length and comprises an amino acid sequence encoded by SEQ ID NO:35, and wherein the antigen binds to an antibody that can bind to HIV-O.

(New) The antigen of claim 47, wherein the peptide is from 16 amino acids in length to 33 amino acids in length.

(New) The antigen of claim 47, wherein the amino acid sequence encoded by SEQ ID NO:35 is alanine-alanine-glycine-serine-threonine-methionine.

- 50. (New) A test kit for detecting antibodies that can bind to HIV-O comprising:
  - (a) the antigen of claim 45 and
  - (b) ancillary reagents suitable for use in detecting the presence of antibodies to the antigen in a biological sample.

AAGSTM

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ALA-ALA-GLY-SER-THR-MET

SAR FOS BOR PETCOS 4,6,7

14-17,12,6,

- 51. (New) The test kit of claim 50, wherein the test is an enzyme linked immunosorbent assay (ELISA).
  - 52. (New) A test kit for detecting antibodies that can bind to HIV-O comprising:
    - (a) the antigen of claim 47 and
    - (b) ancillary reagents suitable for use in detecting the presence of antibodies to the antigen in a biological sample.
- 53. (New) The test kit of claim 52, wherein the test is an enzyme linked immunosorbent assay (ELISA).

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Download All <u>Sequences</u>

<210> SEQ ID NO 35

<211> LENGTH: 20

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: Description of Artificial Sequence: primer

<400> SEQUENCE: 35

agcagcagga agcactatgg

20

SCORE 2.0 BuildDate: 12/05/2005 determination of the DNA concentration at 260 nm in a spectrophotometer (Beckman), sequenced by the Sanger method (F. Sanger, Proc. Natl. Acad, Sci., 74: 5463, 1977). Instead of sequencing with Klenow DNA polymerase, the sequencing reaction was carried out using a kit from Applied Biosystems ("Taq dye deoxy terminator cycle sequencing", order No.: 401150). Primer 1 (SEQ ID NO:35) or primer 2 (SEQ ID NO:36) (in each case 1  $\mu$ M) was employed as primers in separate sequencing reactions. The sequencing reaction was analysed on a 373A DNA sequencing apparatus (Applied Biosystems) in accordance with the instructions of the apparatus

[064] The nucleotide sequence of the amplified DNA region, and the amino acid sequence deduced from it, are presented in Table 1. Table 1 includes the DNA sequences SEQ ID NO:37 and SEQ ID NO:38, as well as amino acid SEQ ID NO:39. The top line in Table 1 corresponds to SEQ ID NO:37, the middle line corresponds to SEQ ID NO:38, and the bottom line corresponds to the amino acid SEO ID NO:39

## [065] <u>Table 1:</u>

GCGCAGCGGCAACAGCGCTGACGGTACGGACCCACAGTGTACTGAAGGGTATAGTGCAAC
CGCGTCGCCGTTGTCGCGACTGCCATGCCTGGGTGTCACATGACTTCCCATATCACGTTG

A A A T A L T V R T H S V L K G I V Q Q

AGCAGGACAACCTGCTGAGAGCGATACAGGCCCAGCAACACTTGCTGAGGTTATCTGTAT

TCGTCCTGTTGGACGACTCTCGCTATGTCCGGGTCGTTGTGAACGACTCCAATAGACATA

Q D N L L R A I Q A Q Q H L L R L S V W